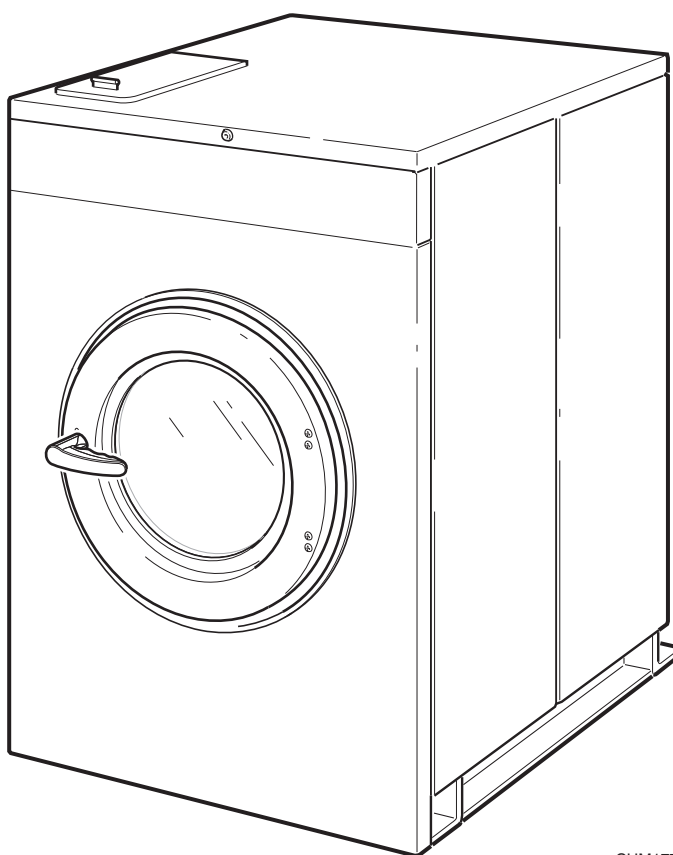


Washer-Extractors

Cabinet Hardmount Operating Instructions



CHM1772C

Basic Installation/Operation

Keep These Instructions for Future Reference.

(If this machine changes ownership, this manual must accompany machine.)



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Part No. F8321401R1EN
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Safety Information

Precautionary statements (“DANGER,” “WARNING,” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

	DANGER
DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.	

	WARNING
WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.	

	CAUTION
CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.	

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

	WARNING
To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:	
W023	

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION Manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. **HYDROGEN GAS IS EXPLOSIVE.** If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable; do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.

9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
17. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the service agent.
21. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
22. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
23. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
24. Always follow the fabric care instructions supplied by the textile manufacturer.
25. Never operate the washer with any guards and/or panels removed.
26. DO NOT operate the washer with missing or broken parts.
27. DO NOT bypass any safety devices.
28. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNING and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

	WARNING
This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.	
SW004	

IMPORTANT: Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

	WARNING
Install the machine on a level floor of sufficient strength. Failure to do so may result in conditions which can produce serious injury, death and/or property damage.	
W703	

	CAUTION
Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.	
SW025	

	WARNING
Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.	
SW014	

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

Use manufacturer-authorized spare parts to avoid safety hazards.

Operator Safety

	WARNING
NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.	
SW012	

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
2. Check door interlock before starting operation of the machine:
 - a. Attempt to start the machine with the door open. The machine should not start with the door open.
 - b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
 - c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, call a service technician.
3. Do not attempt to operate the machine if any of the following conditions are present:
 - a. The door does not remain securely locked during the entire cycle.
 - b. Excessively high water level is evident.
 - c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

	WARNING
Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.	
SW039	

Specifications and Dimensions

2 Speed Models					
Specification		20	30	40	60
Weight and Shipping Information					
Net weight, lbs. (kg)		387 (176)	489 (222)	692 (314)	812 (368)
Domestic shipping weight, lbs. (kg)		420 (191)	530 (240)	734 (333)	854 (387)
Domestic shipping volume, ft ³ (m ³)		30.5 (0.86)	40.75 (1.15)	50 (1.42)	64 (1.81)
Export shipping weight lbs., (kg)		475 (215)	593 (269)	816 (370)	948 (430)
Export shipping volume, ft ³ (m ³)		36.2 (1.03)	49.9 (1.41)	60 (1.70)	75.8 (2.15)
Wash Cylinder Information					
Cylinder diameter, in. (mm)		21 (533)	24 (610)	26.25 (667)	30 (762)
Cylinder depth, in. (mm)		13.75 (349)	16 (406)	20.25 (514)	22 (559)
Cylinder volume, ft ³ (l)		2.76 (78.1)	4.19 (118.6)	6.34 (180)	9.00 (255)
Perforation size, in. (mm)		0.188 (4.76)	0.188 (4.76)	0.188 (4.76)	0.188 (4.76)
Perforation open area, %		17	23	17.5	18
Door Opening Information					
Door opening diameter, in. (mm)		11.63 (295)	14.34 (364)	16.25 (413)	16.25 (413)
Height of door bottom above floor, in. (mm)		14.38 (365)	14 (356)	14.5 (368)	15 (381)
Height of door opening above floor, in. (mm)		17.19 (437)	17 (431)	19 (483)	18.5 (470)
Power Consumption					
Average power used per cycle, kW-hr	No load	0.06	0.13	0.196	0.25
	Sheets	0.10	0.14	0.195	0.26
	Towels	0.11	0.16	0.213	0.33
Average HVAC load, Btu/hr. (Kcal./Hr.)		425 (107)	463 (117)	510 (129)	700 (176)

Table 1 (Continued)

Table 1 (Continued)

2 Speed Models (Continued)					
Specification		20	30	40	60
Drive Train Information					
Number of motors in drive train		1	1	1	1
Wash/reverse power, HP (kW)		0.15 (0.11)	0.24 (0.18)	0.40 (0.30)	0.55 (0.41)
High extract power, HP (kW)		.74 (0.55)	1.34 (1.00)	1.8 (1.3)	2.7 (2.01)
Cylinder Speeds					
Wash/reverse speed, RPM		57	49	51	44
High extract speed, RPM		528	464	491	469
Centrifugal Force Data					
Wash/reverse centrifugal force, Gs		0.9	0.8	0.8	0.9
High extract centrifugal force, Gs		80.3	72.1	78.1	85.4
Direct Steam Heating (Optional)					
Steam inlet connection size, in. (mm)		N/A	N/A	1/2 (13)	1/2 (13)
Number of steam inlets		N/A	N/A	1	1
Steam required to raise bath water temperature 10°F (10°C), lbs. (kg)	LOW	N/A	N/A	2.09 (0.84)	3.6 (0.895)
	MED	N/A	N/A	2.40 (1.15)	4.4 (1.384)
	HIGH	N/A	N/A	2.84 (1.48)	5.5 (1.916)
Average steam use per cycle, bhp (kg)		N/A	0.73 (6.9)	1.43 (12.2)	2.32 (15.4)
Electrical Heating (Optional)					
Total electrical heating capacity, kW	Input Voltage				
	200V	5.4	5.4	10.8	10.8
	240V	7.8	7.8	15.6	15.6
	380V	6.5	6.5	13.0	13.0
	415V	7.8	7.8	15.5	15.5
	480V	N/A	N/A	15.6	15.6
Electrical heating elements		3	3	6	6
Electrical heat element size, kW		2.6	2.6	2.6	2.6

Table 1

Basic Installation/Operation

Variable-Speed and Fixed-Speed Models						
Specification	20	30	40	60	80	125
Weight and Shipping Information						
Net weight, lbs. (kg)	386 (175)	498 (226)	706 (321)	773 (350)	1374 (623)	2301 (1044)
Domestic shipping weight, lbs. (kg)	424 (191)	545 (245)	744 (338)	824 (373)	1461 (663)	2384 (1081)
Domestic shipping volume, ft ³ (m ³)	27 (0.76)	34.4 (0.98)	43.6 (1.24)	52.2 (1.48)	102.2 (2.89)	163 (4.3)
Export shipping weight, lbs. (kg)	476 (215)	588 (267)	846 (385)	1020 (463)	1573 (714)	2492 (1130)
Export shipping volume, ft ³ (m ³)	36.7 (1.04)	49.5 (1.40)	65.6 (1.86)	74.7 (3.35)	118.3 (3.35)	173 (4.8)
Wash Cylinder Information						
Cylinder diameter, in. (mm)	21 (533)	24 (610)	26.25 (667)	30 (762)	36 (914)	42 (1060)
Cylinder depth, in. (mm)	13.75 (349)	16 (406)	20.25 (514)	22 (559)	22 (559)	24 (609)
Cylinder volume, ft ³ (l)	2.76 (78.1)	4.19 (118)	6.34 (180)	9.00 (255)	12.4 (354)	19.2 (544)
Perforation size, in. (mm)	0.188 (4.76)	0.188 (4.76)	0.188 (4.76)	0.188 (4.76)	0.188 (4.76)	0.188 (4.76)
Perforation open area, %	17	23	17.5	18	18	24
Door Opening Information						
Door opening size, in. (mm)	11.63 (295)	14.34 (364)	16.25 (413)	16.25 (413)	18.5 (470)	20 (508)
Height of door bottom above floor, in. (mm)	14.38 (365)	14 (356)	14.5 (368)	18.25 (445)	17.75 (451)	29 (737)
Height of door opening bottom, in. (mm)	17.19 (437)	17 (431)	18 (457)	N/A	21.63 (549)	30.25 (768)
Estimated Building Heat Load						
Average power used per cycle, kW-hr	0.05	0.07	0.34	0.21	0.40	0.60
Average HVAC load, Btu/hr	400	450	510	750	950	1200
Drive Train Information						
Number of motors in drive train	1	1	1	1	1	1
Drive motor power, HP (kW)	1 (.75)	1 (.75)	2 (1.7)	3 (2.2)	5 (3.7)	7.5 (5.6)

Table 2 (Continued)

Table 2 (Continued)

Variable-Speed and Fixed-Speed Models (Continued)							
Specification		20	30	40	60	80	125
Cylinder Speeds							
Gentle wash/reverse speed, RPM		29	27	26	26	22	26
Wash/reverse speed, RPM		52	52	46	43	40	37
Distribution speed, RPM		92	92	82	77	70	65
Low extract speed, RPM		366	366	328	307	280	260
Medium extract speed, RPM (Not available on Electronic Control models.)		534	534	478	447	408	378
High extract speed, RPM		686	686	613	574	524	485
Centrifugal Force Data							
Gentle wash centrifugal force, Gs		0.25	0.25	0.25	0.25	0.25	0.43
Wash/reverse centrifugal force, Gs		0.8	0.8	0.8	0.8	0.8	0.8
Distribution centrifugal force, Gs		2.5	2.5	2.5	2.5	2.5	2.6
Low extract centrifugal force, Gs		40	40	40	40	40	40
Medium extract centrifugal force, Gs		85	85	85	85	85	85
High extract centrifugal force, Gs		140	140	140	140	140	140
Direct Steam Heating (Optional)							
Steam inlet connection size, in. (mm)		N/A	N/A	1/2 (13)	1/2 (13)	1/2 (13)	3/4 (19)
Number of steam inlets		N/A	N/A	1	1	1	1
Steam required to raise bath water temperature 10°F (6°C), lbs. (kg)	LOW	N/A	N/A	2.09 (0.94)	3.6 (1.63)	2.58 (1.17)	3.64 (1.65)
	MED	N/A	N/A	2.40 (1.09)	4.4 (2.00)	4.65 (2.11)	5.17 (2.35)
	HIGH	N/A	N/A	2.84 (1.29)	5.5 (2.50)	5.79 (2.63)	7.78 (3.52)
Average steam use per cycle, bhp (kg)		N/A	0.73 (11.3)	1.43 (12.2)	2.32 (15.4)	1.34 (20.9)	1.14 (31.45)
Electrical Heating (Optional)							
Total electrical heating capacity, kW	Input Voltage						
	200V	5.4	5.4	10.8	10.8	21.7	N/A
	240V	7.8	7.8	15.6	15.6	31.2	N/A
	380V	6.5	6.5	13.0	13.0	19.6	N/A
	415V	7.8	7.8	15.5	15.5	23.3	N/A
	480V	N/A	N/A	15.6	15.6	31.2	N/A
Electrical heating elements		3	3	3	9	12	N/A
Electrical heat element size, kW		2.6	2.6	5.2	2.6	2.6	N/A

Table 2

Dimensional Clearances

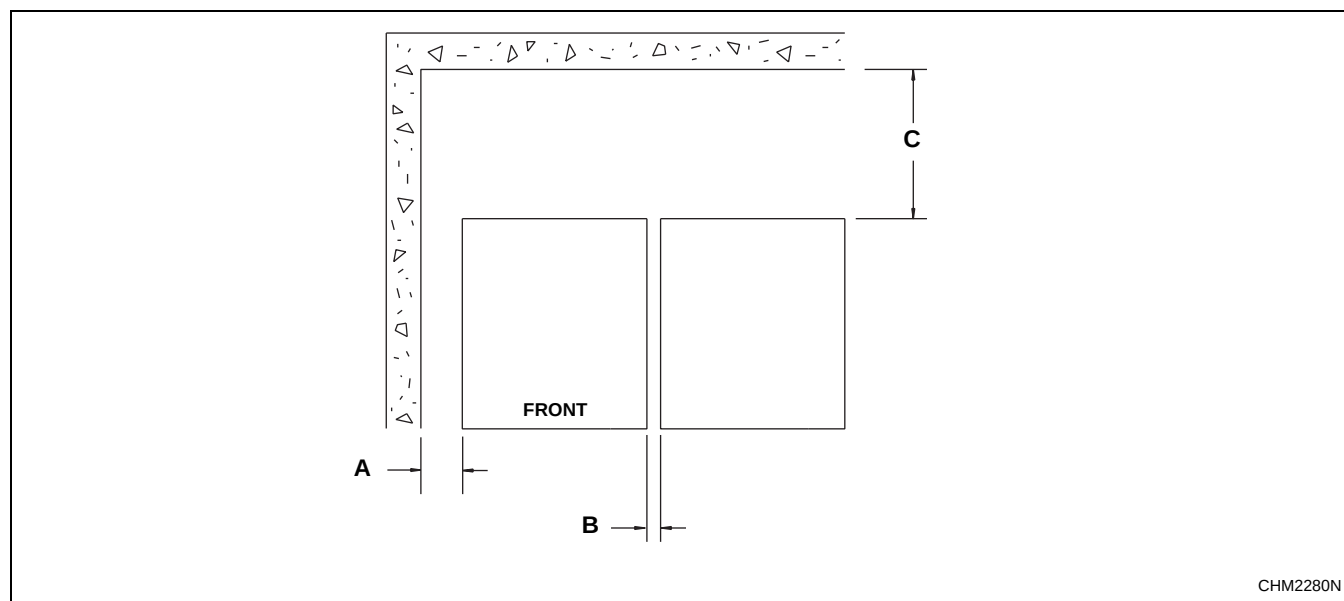


Figure 1

Machine Capacity Dimensional Clearances						
Dimensions	20	30	40	60	80	125
A	2 in. (51 mm)	2 in. (51 mm)	2 in. (51 mm)	2 in. (51 mm)	6 in. (152 mm)	24 in. (600 mm)
B	.5 in. (12.5 mm)	.5 in. (12.5 mm)	.5 in. (12.5 mm)	.5 in. (12.5 mm)	.5 in. (12.5 mm)	.5 in. (12.5 mm)
C (recommended)	24 in. (610 mm)	24 in. (610 mm)	24 in. (610 mm)	24 in. (610 mm)	24 in. (610 mm)	36 in. (914 mm)
C (minimum)	12 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)	18 in. (457 mm)	24 in. (610 mm)

Table 3

Dimensions

20, 30, 40, 60 and 80 Pound Models

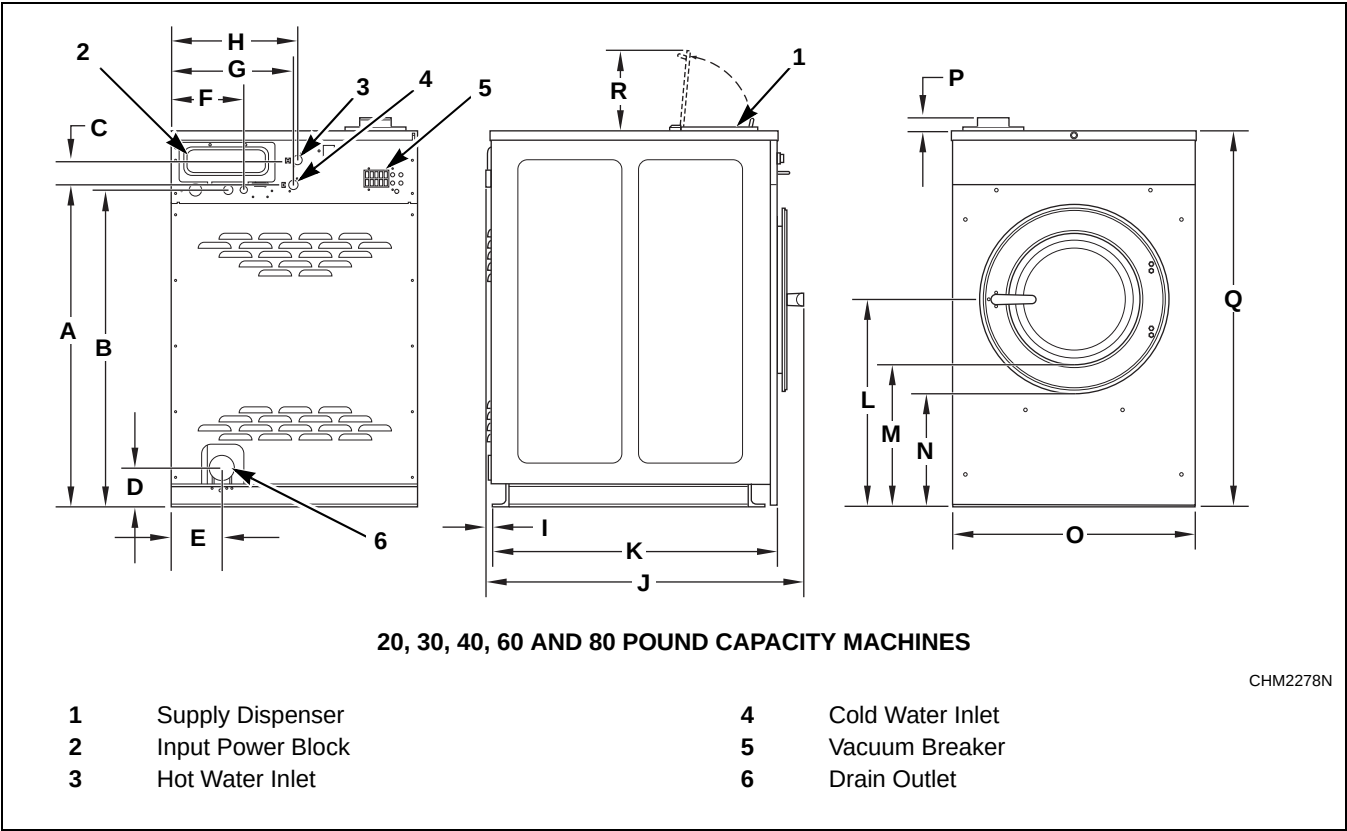


Figure 2

Machine Capacity Dimensions						
Dimensions		20	30	40	60	80
A		35.15 in. (893 mm)	38.03 in. (966 mm)	40.31 in. (1024 mm)	43.31 in. (1100 mm)	51.87 in. (1317 mm)
B		34.52 in. (877 mm)	37.46 in. (951 mm)	39.71 in. (1009 mm)	42.4 in. (1077 mm)	48.68 in. (1236 mm)
C		1.81 in. (46 mm)	1.73 in. (44 mm)	2.97 in. (75 mm)	2.42 in. (61 mm)	2.71 in. (69 mm)
D		4.5 in. (114 mm)	4.5 in. (114 mm)	4.81 in. (122 mm)	4.69 in. (119 mm)	5.71 in. (145 mm)
E	Standard	5.88 in. (149 mm)	5.88 in. (149 mm)	6.35 in. (161 mm)	5.5 in. (140 mm)	6.38 in. (162 mm)
	Electric Heat	5.88 in. (149 mm)	5.88 in. (149 mm)	6.03 in. (153 mm)	6.27 in. (159 mm)	7.15 in. (182 mm)
F		8.82 in. (224 mm)	8.82 in. (224 mm)	8.82 in. (224 mm)	8.82 in. (224 mm)	8.82 in. (224 mm)
G		15.10 in. (384 mm)	15.19 in. (386 mm)	15.15 in. (385 mm)	19.85 in. (504 mm)	21.62 in. (549 mm)
H		15.6 in. (396 mm)	15.6 in. (396 mm)	15.65 in. (398 mm)	20.35 in. (517 mm)	26.12 in. (663 mm)
I		1.58 in. (40 mm)	1.18 in. (30 mm)	1.47 in. (37 mm)	1.34 in. (34 mm)	0.97 in. (25 mm)
J		30.21 in. (767 mm)	34.57 in. (878 mm)	39.72 in. (1009 mm)	42.54 in. (1081 mm)	51.5 in. (1308 mm)
K		25.5 in. (648 mm)	30.42 in. (773 mm)	35.28 in. (896 mm)	38.23 in. (971 mm)	47.52 in. (1207 mm)
L		23.01 in. (584 mm)	24 in. (610 mm)	26 in. (660 mm)	26.38 in. (670 mm)	30.91 in. (785 mm)
M		17 in. (432 mm)	17 in. (432 mm)	17.74 in. (451 mm)	18.12 in. (460 mm)	20.77 in. (528 mm)
N		14.38 in. (365 mm)	14 in. (356 mm)	14.56 in. (370 mm)	14.94 in. (379 mm)	17.91 in. (455 mm)
O		26 in. (660 mm)	29 in. (737 mm)	30.63 in. (778 mm)	34.06 in. (865 mm)	41.5 in. (1054 mm)
P		1.5 in. (38 mm)	1.5 in. (38 mm)	1.5 in. (38 mm)	1.5 in. (38 mm)	1.5 in. (38 mm)
Q		42 in. (1067 mm)	44.95 in. (1142 mm)	47.20 in. (1199 mm)	49.89 in. (1267 mm)	56.16 in. (1426 mm)
R		9 in. (229 mm)	9 in. (229 mm)	9 in. (229 mm)	9 in. (229 mm)	9 in. (229 mm)

Table 4

125 Model

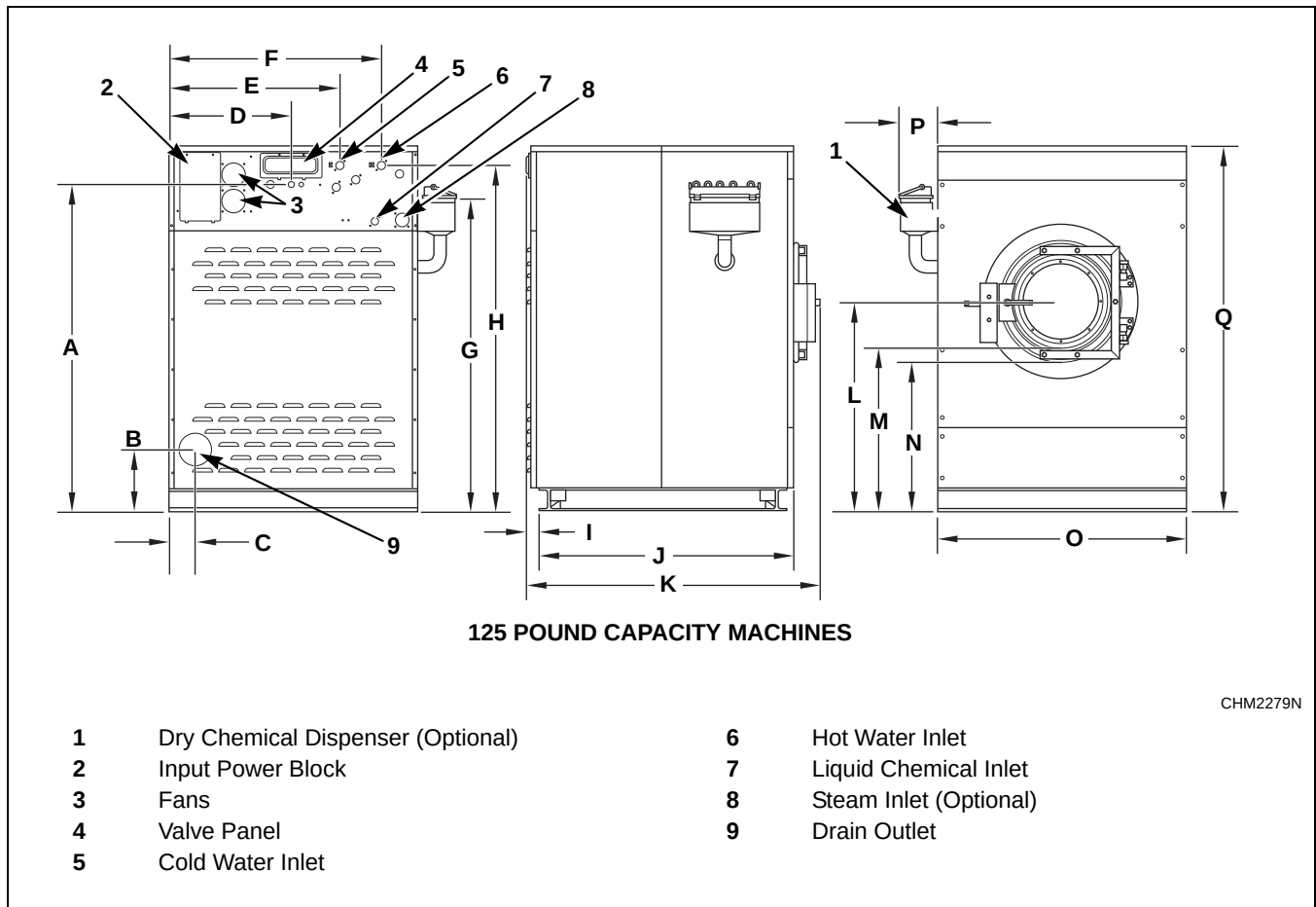


Figure 3

Machine Capacity Dimensions for 125 Pound Models			
A	78.8 in. (2002 mm)	J	61.28 in. (1557 mm)
B	14.62 in. (371 mm)	K	70.81 in. (1799 mm)
C	6.27 in. (159 mm)	L	50.2 in. (1275 mm)
D	29.56 in. (751 mm)	M	38.96 in. (990 mm)
E	41.28 in. (1049 mm)	N	35.74 in. (908 mm)
F	51.26 in. (1302 mm)	O	60 in. (1524 mm)
G	75.15 in. (1909 mm)	P	9.92 in (252 mm)
H	83.4 in. (2118 mm)	Q	88.09 in. (2237 mm)
I	2.86 in. (73 mm)		

Table 5

Electrical Specifications

Electrical Specifications 20 Pound Capacity Models												
Voltage Designation					Standard				Electric Heat			
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm ²	Full Load Amps	Circuit Breaker	AWG	mm ²
2 Speed Models												
B	120	60	1	2	16	20	12	4.0	N/A			
C	380 – 415	50	3	4	4	15	14	2.5	14	15	14	2.5
F	440 – 480	60	3	3	4	15	14	2.5	N/A			
J	200	50	3	3	5	15	14	2.5	N/A			
O	208 – 240	60	3	3	5	15	14	2.5	23	30	10	6.0
Y	208 – 240	60	1	2	8	15	14	2.5	N/A			
Variable-Speed Models												
Q	200 – 240	50/60	3	3	4	15	14	2.5	21	30	10	6.0
R	380 – 480	50/60	3	3	4	15	14	2.5	N/A			
X	200 – 240	50/60	1/3	2/3	6/4	15	14	2.5	N/A			

NOTE: Wire sizes shown are for copper, THHN, 90° conductor per NEC article 310.

Table 6

Electrical Specifications 30 Pound Capacity Models												
Voltage Designation					Standard				Electric Heat			
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm ²	Full Load Amps	Circuit Breaker	AWG	mm ²
2 Speed Models												
C	380 – 415	50	3	4	4	15	14	2.5	15	20	12	4.0
F	440 – 480	60	3	3	4	15	14	2.5	N/A			
J	200	50	3	3	7	15	14	2.5	N/A			
O	208 – 240	60	3	3	7	15	14	2.5	25	30	10	6.0
Y	208 – 240	60	1	2	10	20	12	4.0	N/A			
Variable-Speed Models												
Q	200 – 240	50/60	3	3	5	15	14	2.5	22	30	10	6.0
R	380 – 480	50/60	3	3	4	15	14	2.5	N/A			
X	200 – 240	50/60	1/3	2/3	7/5	15	14	2.5	N/A			

NOTE: Wire sizes shown are for copper, THHN, 90° conductor per NEC article 310.

Table 7

Electrical Specifications 40 Pound Capacity Models												
Voltage Designation					Standard				Electric Heat			
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm²	Full Load Amps	Circuit Breaker	AWG	mm²
2 Speed Models												
C	380 – 415	50	3	4	5	15	14	2.5	27	30	10	6.0
F	440 – 480	60	3	3	5	15	14	2.5	24	30	10	6.0
J	200	50	3	3	7	20	12	4.0	N/A			
O	208 – 240	60	3	3	7	20	12	4.0	45	50	8	10.0
Y	208 – 240	60	1	2	14	30	10	6.0	N/A			
Variable-Speed Models												
R	380 – 480	50/60	3	3	5	15	14	2.5	22	30	10	6.0
Q	200 – 240	50/60	3	3	6	15	14	2.5	42	50	8	10.0
X	200 – 240	50/60	1/3	2/3	10/6	15	14	2.5	N/A			

NOTE: Wire sizes shown are for copper, THHN, 90° conductor per NEC article 310.

Table 8

Electrical Specifications 60 Pound Capacity Models												
Voltage Designation					Standard				Electric Heat			
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm ²	Full Load Amps	Circuit Breaker	AWG	mm ²
2 Speed Models												
C	380 - 415	50	3	4	5	15	14	2.5	27	30	10	6.0
F	440 - 480	60	3	3	5	15	14	2.5	24	30	10	6.0
J	200	50	3	3	10	20	12	4.0	N/A			
O	208 - 240	60	3	3	10	20	12	4.0	48	50	8	10.0
Variable-Speed Models												
R	380 - 480	50/60	3	3	6	15	14	2.5	23	30	10	6.0
Q	200 - 240	50/60	3	3	8	15	14	2.5	43	50	8	10.0
X	200 - 240	50/60	1/3	2/3	11/8	15	14	2.5	N/A			

NOTE: Wire sizes shown are for copper, THHN, 90° conductor per NEC article 310.

Table 9

Electrical Specifications 80 Pound Capacity Models												
Voltage Designation					Standard				Electric Heat			
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm ²	Full Load Amps	Circuit Breaker	AWG	mm ²
Variable-Speed Models												
R	380 – 480	50/60	3	3	8	15	14	2.5	40	50	8	10.0
Q	200 – 240	50/60	3	3	11	15	14	2.5	82	90	3	25.0
X	200 – 240	50/60	1/3	2/3	16/11	20/15	12/14	4.0/2.5	N/A			

NOTE: Wire sizes shown are for copper, THHN, 90° conductor per NEC article 310.

Table 10

Electrical Specifications 125 Pound Capacity Models												
Voltage Designation					Standard				Electric Heat			
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm ²	Full Load Amps	Circuit Breaker	AWG	mm ²
Variable-Speed Models												
R	380 – 480	50/60	3	3	10	15	14	2.5	N/A			
Q	200 – 240	50/60	3	3	11	15	14	2.5	N/A			

NOTE: Wire sizes shown are for copper, THHN, 90° conductor per NEC article 310.

Table 11

Operation

NOTE: Available settings vary by model.

Symbol	Description
 CHM2253N	Stop
 CHM2254N	Start
 CHM2255N	Up Edit
 CHM2256N	Down Edit
 CHM2257N	Back
 CHM507N	Wash
 CHM2258N	Add Bleach
 CHM509N	Rinse
 CHM510N	Spin
 CHM2259N	Door Lock

Table 12 (Continued)

Table 12 (Continued)

Symbol	Description
 CHM2260N	Extra Wash
 CHM2261N	Extra Rinse
 CHM2262N	Normal Wash
 CHM2263N	Permanent Press
 CHM2264N	Gentle Wash
 CHM1988N	Time
 CHM2265N	Start/Enter
 CHM2266N	Vend Price/Actuation

Table 12

Operating Instructions, Vend Models Only

1. Turn on main power source (circuit breaker).
2. Turn handle clockwise to open. Refer to *Figure 4*.

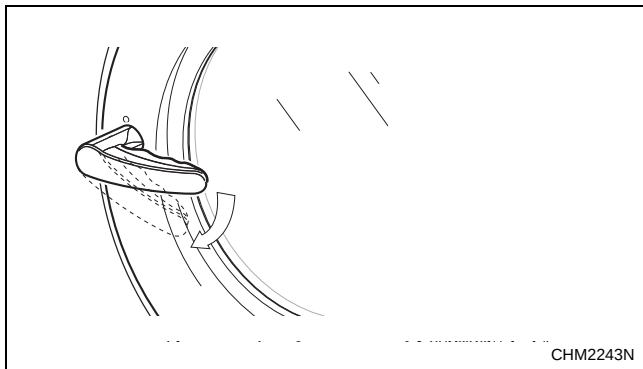


Figure 4

3. Load to capacity whenever possible. DO NOT OVERLOAD. Refer to *Figure 5*.

NOTE: Underloading can cause out-of-balance conditions that can shorten machine life.

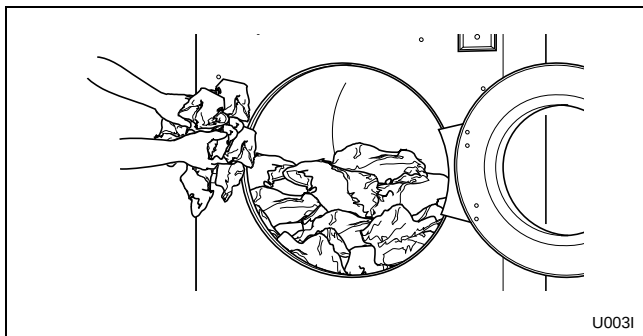


Figure 5

4. Close door and turn handle counter clockwise. Refer to *Figure 6*.

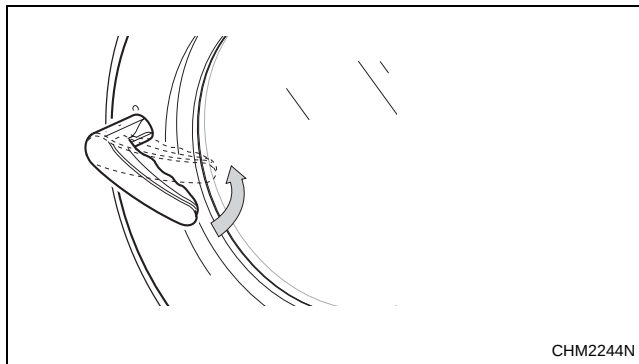


Figure 6

5. The default wash cycle will display.



WARNING

To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit (51° Celsius) and hot surfaces.

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6. Select the desired soil setting (select models only), cycle setting (select models only) and cycle/temperature. The LED indicator(s) for that cycle will light.

7. Add liquid and/or powder supplies to supply dispenser. Refer to *Figure 7*.

a. Detergent:

- Liquid - Compartment 1 (prewash) + Compartment 3
- Powder - Compartment 1 (prewash) + Compartment 2

b. Bleach:

- Liquid - Compartment 3
- Powder - Compartment 2

c. Softener:

- Liquid - Compartment 4

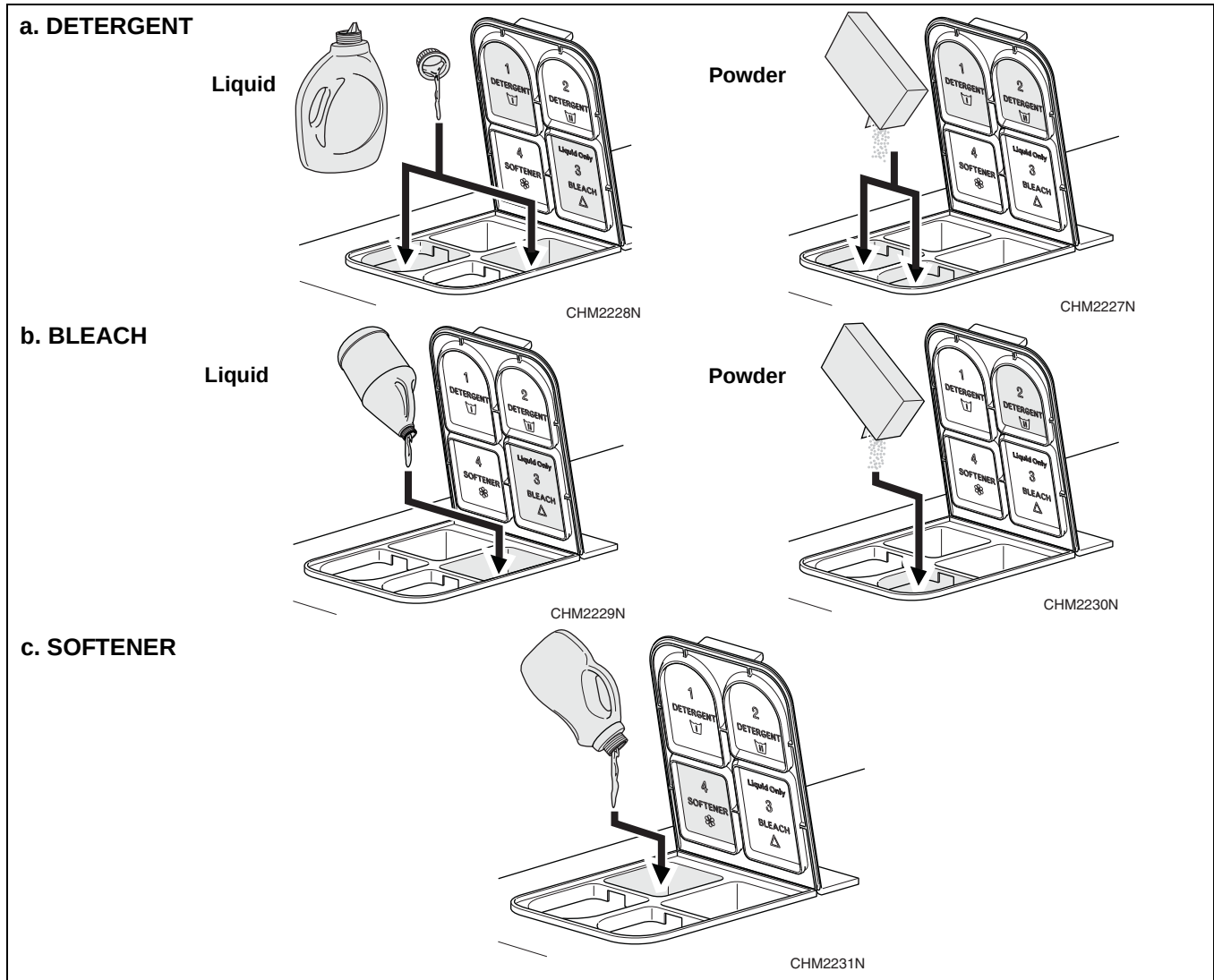


Figure 7

8. Insert coin(s) or card as necessary.

- If the machine is a coin operated unit, add coins. As each coin is added, the vend counts down to the amount remaining.
- If the machine is a card operated unit, insert and remove card per card system instructions.
- If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment and select the machine and follow central/remote pay system instructions.

9. Press the START keypad.

10. During first fill, the desired wash cycle can be changed. After first fill has ended, the wash cycle active at that moment remains the chosen wash cycle.
11. When cycle is complete, display shows "00".

Operating Instructions, OPL Models Only

1. Turn on main power source (circuit breaker).
2. Turn door handle clockwise to open.

NOTE: For 125 models, press the Unlock/Stop keypad. Turn door handle counter clockwise to open.

3. Load to capacity whenever possible. DO NOT OVERLOAD. Refer to *Figure 8*.

NOTE: Underloading can cause out-of-balance conditions that can shorten machine life.

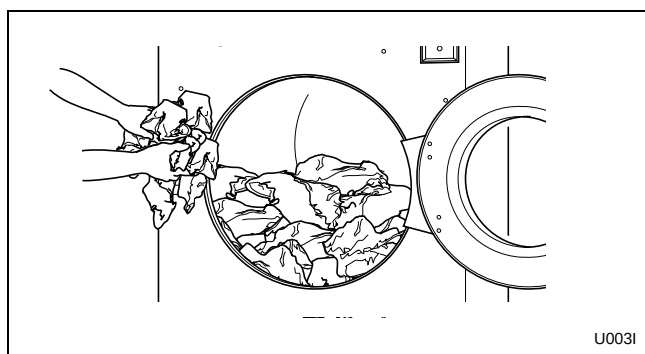


Figure 8

4. Close door and turn handle counter clockwise. Refer to *Figure 9*.

NOTE: For 125 models, close door and turn handle clockwise.

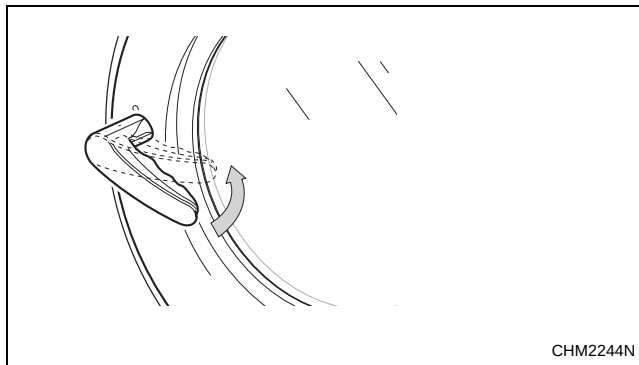


Figure 9

5. The default wash cycle will display.

	WARNING
To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit (51° Celsius) and hot surfaces.	
W748	

6. If desired, select a different wash cycle temperature (select models only) or a different wash cycle number. The LED indicator for that cycle will light or the display will indicate the current cycle.

7. Add liquid and/or powder supplies to supply dispenser. Refer to *Figure 10*.

a. Detergent:

- Liquid - Compartment 1 (prewash) + Compartment 3
- Powder - Compartment 1 (prewash) + Compartment 2

b. Bleach:

- Liquid - Compartment 3
- Powder - Compartment 2

c. Softener:

- Liquid - Compartment 4

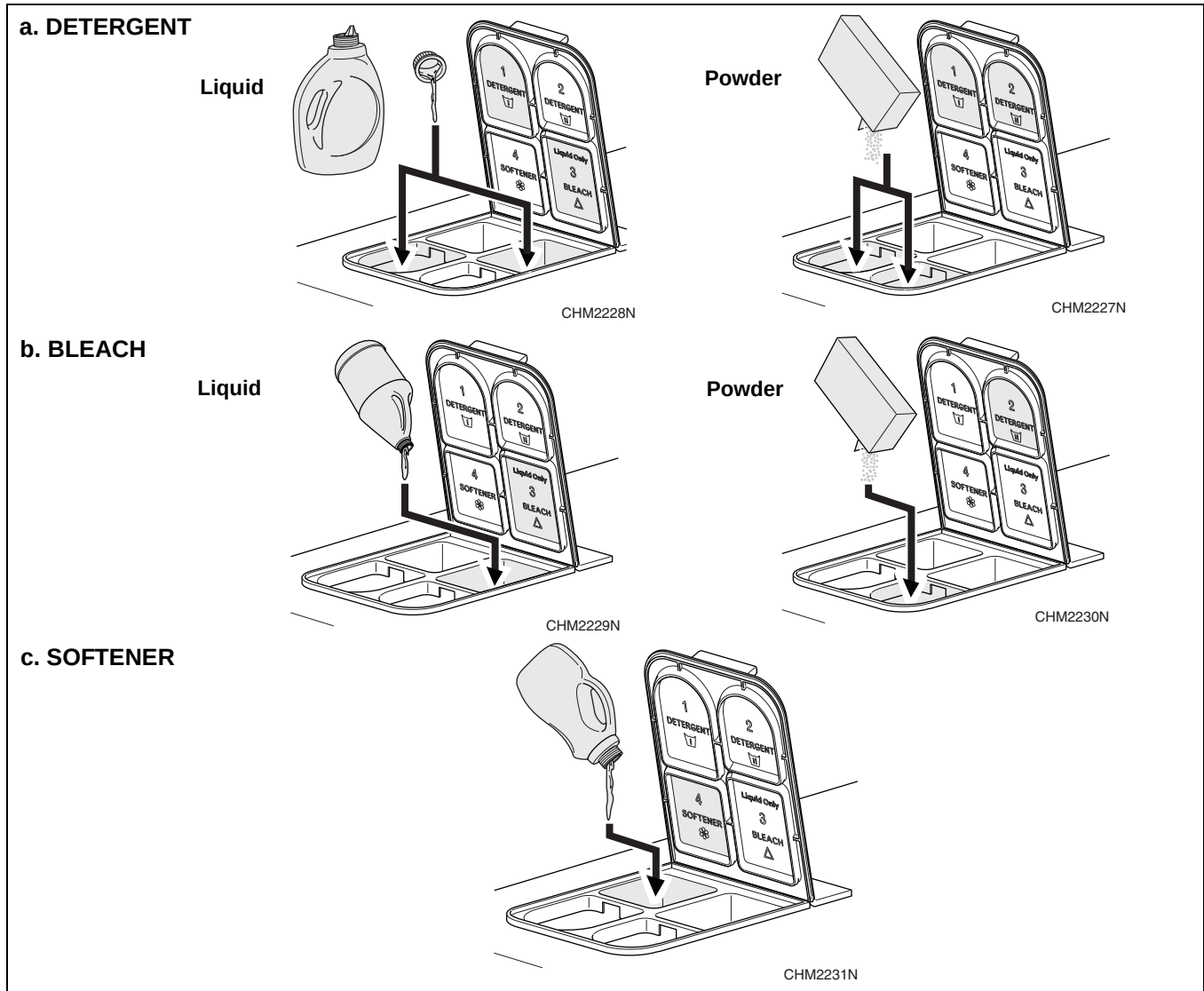


Figure 10

8. Press the START keypad.

9. During first fill, the desired wash cycle can be changed on some models. After first fill has ended, the wash cycle active at that moment remains the chosen wash cycle.

10. When cycle is complete, display shows "00".

Disposal of Unit

This appliance is marked according to the European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Refer to *Figure 11*. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact the local city office, household waste disposal service, or the source from which the product was purchased.

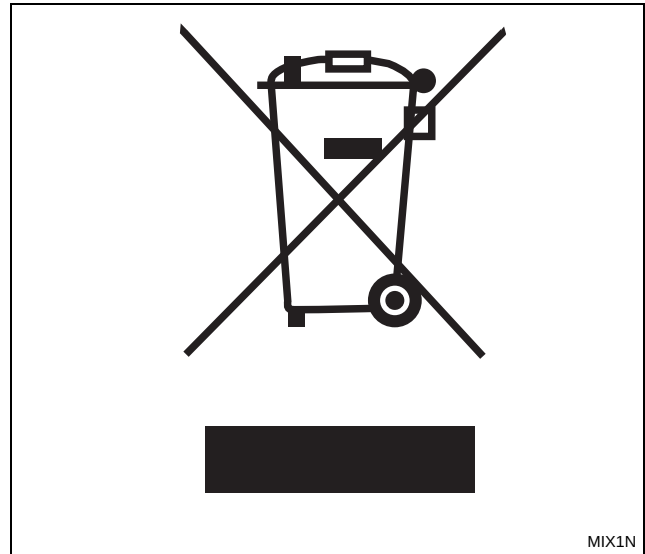


Figure 11